

Appl. No. 10/019,662
Amdt. dated August 4, 2003
Reply to Office action of April 4, 2003

ABSTRACT OF THE DISCLOSURE

It is disclosed a combined system for the elimination of pollutants from gaseous effluents of the type including a step for carrying out at least one electronic bombardment operation and a step for carrying out at least one electrostatic interaction operation, in which a heat diffusion and molecular destabilization operation is performed as a previous treatment in order to restrict the flow of gases in such a way that it causes the gas molecules and suspended particles to tend to split up and electronically destabilize at the time that the temperature of the same gases is reduced; and/or a magnetic molecular rearrangement operation is carried out prior to each electrostatic interaction operation, consisting of subjecting the gases to a magnetic field having such a force that achieve a rearrangement of the sub-particles and heavier molecules thus achieving a selective separation that prepares the gaseous stream for the electrostatic interaction operation. It is described also an apparatus with the system incorporated therein.